

PATENT
Proposed Examiner's Amendment
December 18, 2009

App. No. 09/436,796
Att. Docket No. RIC99060

Proposed Examiner's Amendment

Applicants propose amending the present application as follows:

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A method for routing calls to a destination gateway to establish a communication session call in a telecommunications network between a source user agent and a destination user agent over a path supported at least in part by a telephone network and an IP network, ~~said~~ the IP network including a plurality of ingress and destination gateways, at least one proxy server, and at least one redirect server (RS), ~~said the method comprising the steps of:~~

[[a)] receiving a call setup request at the at least one proxy server from the source user agent, ~~wherein~~ where the source user agent is included in a public switched telephone network and the call set up request identifies the destination user agent;

[[b)] forwarding the received call setup request to the redirect server;

determining, by the redirect server, a status of a group of destination gateways in response to receiving the forwarded call setup request, where the status of a particular destination gateway is determined as one of in-service or out-of-service;

adding the particular destination gateway to a routing list and recording the particular destination gateway as in-service, if the status of the particular destination gateway is determined to be out-of-service and if a time value associated with the determined status is less than or equal to a current time value associated with the redirect server;

not adding the particular destination gateway to the routing list, if the status of the particular destination gateway is determined to be out-of-service and if the time value associated with the determined

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status is greater than the current time value associated with the redirect server;

[[c)] receiving the routing information list or a request failure response from the redirect server;

[[d)] proxying the call setup request by the at least one proxy server to a destination gateway selected from ~~said the routing information list~~ upon receiving the routing ~~information list~~ from the redirect server, ~~wherein where~~ the selected destination gateway [[can]] is to communicate with a public switched telephone network that includes the destination user agent;

[[c)] upon proxying the call setup request to the selected destination gateway, waiting for a response from the selected destination gateway;

[[f)] upon receiving the response from the selected destination gateway within a predetermined time, establishing a communication session using ~~said the~~ selected destination gateway; and

[[g)] if the response is not received within the predetermined time, sending the call setup request to a succeeding destination gateway selected from the routing ~~information list~~ and reporting failure of the selected destination gateway to the redirect server, ~~wherein where~~ the succeeding destination gateway [[can]] is to communicate with a public switched telephone network that includes the destination user agent.

2. (Currently amended) The method as claimed in claim 1, further comprising repeating ~~steps (d) to (g) the proxying the call set up request, the waiting for a response from the selected gateway, the establishing a communication session upon receiving the response, and the sending the call setup request to a succeeding destination gateway if the response is not received within the predetermined time, until a destination gateway is determined to be available for establishing said the communication session or until all destination gateways from said the routing information have been determined to be unavailable.~~

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3. (Currently amended) The method as claimed in claim 1, further comprising ~~the step of~~ recording a destination gateway status as out-of-service if the response from ~~said the~~ destination gateway is not received within ~~said the~~ predetermined time.
4. (Currently amended) The method as claimed in claim 3, ~~wherein where~~ said the step of recording ~~records said~~ further comprises recording the destination gateway status as out-of-service in a gateway information table stored within the [[RS]] redirect server.
5. (Currently amended) The method as claimed in claim 1, ~~wherein where~~ said the step of receiving a call setup request at the at least one proxy server from the source user agent includes ~~the step of~~ addressing ~~said the~~ call setup request to a proxy address of the at least one proxy server.
6. (Currently amended) The method as claimed in claim 1, ~~wherein where~~ said the step of receiving a call setup request at the at least one proxy server from the source user agent includes ~~the step of~~ counting a number of received requests subsequent to ~~said the~~ call setup request at the at least one proxy server.
7. (Currently amended) The method as claimed in claim 1, ~~wherein where~~ the at least one proxy server comprises a Session Initiation Protocol (SIP) proxy server.
8. (Currently amended) The method as claimed in claim 1, ~~wherein where~~ the at least one proxy server comprises an H.323 gatekeeper.
- 9-12. (Canceled)

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13. (Currently amended) The method as claimed in claim ~~[[10]]~~ 1, further ~~including the step of~~
comprising:

sending a message from the at least one proxy server to a network manager to record the status of a destination gateway.

14. (Currently amended) The method as claimed in claim 1, further comprising:

~~the step of~~ forwarding a request failure response to the source user agent upon receiving the request failure response from the at least one proxy server~~[[.]]~~; and
terminating the communication session.

15. (Currently amended) The method as claimed in claim 1, further comprising:

~~the step of~~ resending the call setup request to the selected destination gateway a predetermined number of times when the response is not received within the predetermined time.

16. (Currently amended) A system for ~~allowing establishing a call to be completed in a communication session~~ between a calling party and a called party, ~~which comprises~~ the system comprising:

a first telephony system including at least one source user agent (SUA);

a second telephony system including at least one destination user agent (DUA);

an internet protocol (IP) ~~[[IP]]~~ network connected between ~~said the~~ first and second telephony systems;

a plurality of ingress gateways ~~for interfacing to interface said the~~ IP network to ~~said the~~ first telephony system;

a plurality of egress gateways ~~for interfacing to interface said the~~ IP network to ~~said the~~ second

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telephony system;

an IP telephony proxy server; for selecting and

an IP redirect server;

where the IP telephony proxy server is to:

receive a call setup request from the source user agent, where the call setup request identifies the destination user agent;

forward the call setup request to the IP redirect server;

receive routing information from the IP redirect server, and

select one of said the plurality of egress gateways for completing to complete said the call based on the received routing information received by the IP telephony proxy server, wherein the IP telephony proxy server receives a call setup request from the source user agent that identifies the destination user agent; and

where the [[an]] IP redirect server for providing is to:

determine a status of a group of egress gateways in response to receiving the forwarded call setup request, where the status of a particular egress gateway is determined as one of in-service or out-of-service,

add the particular egress gateway to routing information and record the particular egress gateway as in-service, if the status of the particular egress gateway is determined to be out-of-service and if a time value associated with the determined status is less than or equal to a current time value associated with the redirect server,

not add the particular egress gateway to the routing information, if the status of the particular egress gateway is determined to be out-of-service and if the time value associated with the determined status is greater than the current time value associated with the redirect server, and

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provide the routing information to said the IP telephony proxy server; and
a network management system ~~for receiving to receive~~ and ~~storing store~~ status changes of
~~destination egress~~ gateways, said the network management system being in communication with said the
IP telephony proxy server.

17. (Currently amended) The system as claimed in claim 16, ~~wherein where~~ the IP telephony proxy
server ~~[[is]]~~ includes a Session Initiation Protocol (SIP) proxy server.

18. (Currently amended) The system as claimed in claim 16, ~~wherein where~~ the IP telephony proxy
server ~~[[is]]~~ includes an H.323 gatekeeper.

19-22. (Canceled)

23. (Currently amended) The method according to claim 1, ~~wherein where~~ the routing information
~~identifies list~~ includes at least one destination gateway that can handle the call according to status
information tracked by the redirect server.

24. (Currently amended) The method according to claim 1, ~~wherein where~~ the call setup request
identifies the destination user agent by specifying the address of the destination user agent.

25. (Currently amended) The method according to claim 24, ~~wherein where~~ the address of the
destination user agent includes ~~[[the]]~~ a real IP address of the destination user agent.

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26. (Currently amended) The method according to claim 1, ~~wherein~~ where the redirect server tracks status of at least one destination gateway.

27. (Currently amended) The method according to claim 16, ~~wherein~~ where the call setup request identifies the destination user agent by specifying the address of the destination user agent.

28. (Currently amended) The method according to claim 27, ~~wherein~~ where the address of the destination user agent includes [[the]] a real IP address of the destination user agent.